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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/684,859	10/14/2003	David Scharp	NOVCEL.017A 4801		
20995 KNORRE MA	7590 08/31/2007 RTENS OLSON & BEAF	EXAMINER			
2040 MAIN STREET			AZPURU, C	AZPURU, CARLOS A	
FOURTEENTH FLOOR IRVINE, CA 92614			ART UNIT	PAPER NUMBER	
,			1615		
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			NOTIFICATION DATE	DELIVERY MODE	
			08/31/2007	ELECTRONIC	

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

jcartee@kmob.com eOAPilot@kmob.com

	Application No.	Applicant(s)			
	10/684,859	SCHARP ET AL.			
Office Action Summary	Examiner	Art Unit			
	Carlos A. Azpuru	1615			
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply					
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the malling date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).					
Status					
 Responsive to communication(s) filed on 15 June 2007. This action is FINAL. 2b) This action is non-final. Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. 					
Disposition of Claims					
 4) Claim(s) 1-40 and 76-83, 98-109 is/are pending in the application. 4a) Of the above claim(s) 17-40 is/are withdrawn from consideration. 5) Claim(s) is/are allowed. 6) Claim(s) 1-16,76-83 and 98-109 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or election requirement. 					
Application Papers					
9) The specification is objected to by the Examine 10) The drawing(s) filed on is/are: a) access Applicant may not request that any objection to the Replacement drawing sheet(s) including the correction 11) The oath or declaration is objected to by the Examine 10.	epted or b) objected to by the Eddrawing(s) be held in abeyance. See ion is required if the drawing(s) is obj	e 37 CFR 1.85(a). ected to. See 37 CFR 1.121(d).			
Priority under 35 U.S.C. § 119					
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: Certified copies of the priority documents have been received. Certified copies of the priority documents have been received in Application No Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 					
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Notice of Draftsperson's Patent Drawing Review (PTO-948) 4) Interview Summary (PTO-413) Paper No(s)/Mail Date 5) Notice of Informal Patent Application Paper No(s)/Mail Date (225200) Other:					

DETAILED ACTION

Receipt is acknowledged of the amendment filed 06/15/2007. An information disclosure statement was filed on 06/25/2007.

The rejections under 35 USC 102(b) are hereby withdrawn.

The following are new rejections based on the newly filed information disclosure statement and amended claims:

Claim Rejections - 35 USC § 112

The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

Claims 98-109 are rejected under 35 U.S.C. 112, first paragraph, because the specification, while being enabling for pancreatic cells, does not reasonably provide enablement for all cells. The specification does not enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the invention commensurate in scope with these claims.

The specification is clear that the claimed cell density pertains to pancreatic cells (see specification at page 15, [0048]).

Claim Rejections - 35 USC § 103

The factual inquiries set forth in *Graham* v. *John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:

- 1. Determining the scope and contents of the prior art.
- 2. Ascertaining the differences between the prior art and the claims at issue.
- 3. Resolving the level of ordinary skill in the pertinent art.
- 4. Considering objective evidence present in the application indicating obviousness or nonobviousness.

Claims s 1-16, 76-83, 98-109 are rejected under 35 U.S.C. 103(a) as being unpatentable over WO 00/53159 (WO'159).

WO159 disclose a cell aggregate system which can be used to treat various conditions (see Abstract). Covalently crosslinkable (ethylenically unsaturated) PEG is specifically recited and may be crosslinked with sulfonated comonomer groups (see page 17, lines 4-20 and 23-31, with sulfonated esters listed at line 28). Molecular weight ranges for this PEG may be from 200 to 1,000,000 (see page 18, lines 1-6). Microcapsules formed have diameters of from 1 um to 1000 um (see page 6, line 17), Coated cell aggregates are described at page 4, lines 29-31 and page 5, lines 1-8. The types of cells used for implantation and types of disorders treated are set out in [0049] and [0125] This includes diabetes. Acrylated and diacrylated PEG are set out at page 17, lines 29-30. Cocatalysts including triethanolamine are found at page 19, lines 4-16.

Vinyl pyrrolidone and other accelerators can be added at page 19, lines 18-26. WO'159 differs only in that it does not set out specific cell densities of number of cells per capsule or ml.

However, WO'159 provides a clear teaching that variations in cell densities are not only art recognized, but can be varied by a number of different art recognized methods (see page 31, lines 27-31, page 32, lines 1-15)> as such, it would have been well within the skill of the ordinary practitioner to claim the instant cell densities and cells per ml given the clear teaching that any desired cell density may be selected according to art recognized methods. Further, the ordinary practioner would expect similar therapeutic results from the use of said cell aggregates given the teachings provided by WO'159 to form a similar cell aggregate implant. The instant claims would have therefore been obvious to one of ordinary skill in the art at the time of invention in view of the clear teaching by WO'159 to form such an implant.

Applicant's statement concerning rejoinder has been noted. Applicant should also note that this will occur once the instant claims are free of all rejections. Further, applicant should expect at least one more action once those claims are rejoined.

Conclusion

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Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Carlos A. Azpuru whose telephone number is (571) 272-0588. The examiner can normally be reached on Tu-Fri, 6:30 am - 5:00 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Michael Woodward can be reached on (571) 272-8373. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Primary Examiner

Art Unit 1615

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